DNA sequence for M. Tuberculosis

ATGTCTGCTAACGACCGCCGTGACCGTCGCGTTCGCGTCGCTGTTGTGTTCGGTGGCCGCTCTAACGAACACGCCATCTCTTGCGTTTCTGCGGGTTCTATCCTGCGTAATCTCGACTCTCGCCGTTTCGACGTTATCGCGGTAGGCATCACCCCGGCAGGCTCCTGGGTTCTGACCGATGCGAACCCGGACGCACTGACCATTACTAACCGTGAACTCCCGCAGGTAAAATCTGGTTCTGGTACGGAGCTGGCACTGCCTGCGGACCCTCGTCGTGGTGGCCAACTCGTTTCTCTCCCACCGGGTGCGGGCGAAGTTCTGGAATCTGTTGACGTTGTTTTCCCAGTTCTGCACGGCCCGTATGGTGAAGATGGTACGATCCAGGGCCTGCTGGAGCTCGCGGGTGTACCTTATGTTGGTGCAGGTGTTCTCGCGTCTGCGGTGGGTATGGACAAAGAATTCACCAAAAAACTGCTGGCAGCAGATGGCCTCCCAGTAGGTGCCTACGCGGTCCTCCGTCCGCCTCGTTCTACCCTCCATCGTCAAGAATGCGAGCGTCTGGGTCTGCCGGTTTTCGTTAAACCTGCCCGTGGCGGCTCTTCTATTGGTGTTTCTCGTGTTTCCTCTTGGGATCAGCTCCCTGCGGCAGTTGCGCGTGCCCGTCGCCATGACCCGAAAGTTATCGTTGAAGCGGCGATCTCTGGTCGTGAGCTGGAATGTGGTGTCCTGGAAATGCCGGACGGTACCCTCGAAGCGTCTACTCTGGGCGAAATTCGTGTGGCAGGCGTGCGTGGCCGTGAGGACTCTTTCTACGACTTTGCGACCAAATATCTGGACGACGCAGCCGAACTGGATGTTCCGGCGAAGGTTGATGATCAGGTGGCTGAAGCTATCCGTCAGCTCGCAATTCGCGCATTCGCTGCGATTGACTGCCGTGGCCTCGCACGTGTGGACTTCTTCCTGACTGATGATGGTCCGGTGATCAACGAGATCAACACTATGCCGGGCTTTACTACCATTTCTATGTACCCGCGTATGTGGGCGGCATCTGGCGTTGATTACCCGACCCTGCTCGCGACCATGATCGAAACCACCCTGGCTCGTGGCGTCGGTCTCCATTAA

DNA sequence for M. Tuberculosis with leading and lagging strands

TACTTCCAATCCATGTCTGCTAACGACCGCCGTGACCGTCGCGTTCGCGTCGCTGTTGTGTTCGGTGGCCGCTCTAACGAACACGCCATCTCTTGCGTTTCTGCGGGTTCTATCCTGCGTAATCTCGACTCTCGCCGTTTCGACGTTATCGCGGTAGGCATCACCCCGGCAGGCTCCTGGGTTCTGACCGATGCGAACCCGGACGCACTGACCATTACTAACCGTGAACTCCCGCAGGTAAAATCTGGTTCTGGTACGGAGCTGGCACTGCCTGCGGACCCTCGTCGTGGTGGCCAACTCGTTTCTCTCCCACCGGGTGCGGGCGAAGTTCTGGAATCTGTTGACGTTGTTTTCCCAGTTCTGCACGGCCCGTATGGTGAAGATGGTACGATCCAGGGCCTGCTGGAGCTCGCGGGTGTACCTTATGTTGGTGCAGGTGTTCTCGCGTCTGCGGTGGGTATGGACAAAGAATTCACCAAAAAACTGCTGGCAGCAGATGGCCTCCCAGTAGGTGCCTACGCGGTCCTCCGTCCGCCTCGTTCTACCCTCCATCGTCAAGAATGCGAGCGTCTGGGTCTGCCGGTTTTCGTTAAACCTGCCCGTGGCGGCTCTTCTATTGGTGTTTCTCGTGTTTCCTCTTGGGATCAGCTCCCTGCGGCAGTTGCGCGTGCCCGTCGCCATGACCCGAAAGTTATCGTTGAAGCGGCGATCTCTGGTCGTGAGCTGGAATGTGGTGTCCTGGAAATGCCGGACGGTACCCTCGAAGCGTCTACTCTGGGCGAAATTCGTGTGGCAGGCGTGCGTGGCCGTGAGGACTCTTTCTACGACTTTGCGACCAAATATCTGGACGACGCAGCCGAACTGGATGTTCCGGCGAAGGTTGATGATCAGGTGGCTGAAGCTATCCGTCAGCTCGCAATTCGCGCATTCGCTGCGATTGACTGCCGTGGCCTCGCACGTGTGGACTTCTTCCTGACTGATGATGGTCCGGTGATCAACGAGATCAACACTATGCCGGGCTTTACTACCATTTCTATGTACCCGCGTATGTGGGCGGCATCTGGCGTTGATTACCCGACCCTGCTCGCGACCATGATCGAAACCACCCTGGCTCGTGGCGTCGGTCTCCATTAACAGTAAAGGTGGATA

Reverse complement of the reverse primer:

TATCCACCTTTACTGTTAATGGAGACCGACGCCACG -

Forward Primer:

5’ TAC TTC CAA TCC ATG TCT GCT AAC GAC CGC 3’ 30 bp

GC Content 50.0%

0 mM Mg2+ Tm 63.5 ºC 1.5 mM Mg2+ Tm 70.3 oC 2 mM Mg2+ Tm 70.8 oC

4 mM Mg2+ Tm 71.7 oC 6 mM Mg2+ Tm 72.2 oC

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Reverse Primer:

5’ CGTGGCGTCGGTCTCCATTAACAGTAAAGGTGGATA 3’ 36 bp

Reverse complement it:

5’ TAT CCA CCT TTA CTG TTA ATG GAG ACC GAC GC 3’ 32 bp

0 mM Mg2+ Tm 62.7 oC 1.5 mM Mg2+ Tm 69.7 oC 2 mM Mg2+ Tm 70.2 oC

4 mM Mg2+ Tm 71.1 oC 6 mM Mg2+ Tm 71.6 oC

GC Content 46.9%

Insert:

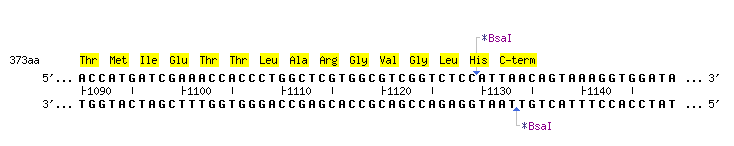
DNA sequence for M. Tuberculosis with leading and lagging strands

TACTTCCAATCCATGTCTGCTAACGACCGCCGTGACCGTCGCGTTCGCGTCGCTGTTGTGTTCGGTGGCCGCTCTAACGAACACGCCATCTCTTGCGTTTCTGCGGGTTCTATCCTGCGTAATCTCGACTCTCGCCGTTTCGACGTTATCGCGGTAGGCATCACCCCGGCAGGCTCCTGGGTTCTGACCGATGCGAACCCGGACGCACTGACCATTACTAACCGTGAACTCCCGCAGGTAAAATCTGGTTCTGGTACGGAGCTGGCACTGCCTGCGGACCCTCGTCGTGGTGGCCAACTCGTTTCTCTCCCACCGGGTGCGGGCGAAGTTCTGGAATCTGTTGACGTTGTTTTCCCAGTTCTGCACGGCCCGTATGGTGAAGATGGTACGATCCAGGGCCTGCTGGAGCTCGCGGGTGTACCTTATGTTGGTGCAGGTGTTCTCGCGTCTGCGGTGGGTATGGACAAAGAATTCACCAAAAAACTGCTGGCAGCAGATGGCCTCCCAGTAGGTGCCTACGCGGTCCTCCGTCCGCCTCGTTCTACCCTCCATCGTCAAGAATGCGAGCGTCTGGGTCTGCCGGTTTTCGTTAAACCTGCCCGTGGCGGCTCTTCTATTGGTGTTTCTCGTGTTTCCTCTTGGGATCAGCTCCCTGCGGCAGTTGCGCGTGCCCGTCGCCATGACCCGAAAGTTATCGTTGAAGCGGCGATCTCTGGTCGTGAGCTGGAATGTGGTGTCCTGGAAATGCCGGACGGTACCCTCGAAGCGTCTACTCTGGGCGAAATTCGTGTGGCAGGCGTGCGTGGCCGTGAGGACTCTTTCTACGACTTTGCGACCAAATATCTGGACGACGCAGCCGAACTGGATGTTCCGGCGAAGGTTGATGATCAGGTGGCTGAAGCTATCCGTCAGCTCGCAATTCGCGCATTCGCTGCGATTGACTGCCGTGGCCTCGCACGTGTGGACTTCTTCCTGACTGATGATGGTCCGGTGATCAACGAGATCAACACTATGCCGGGCTTTACTACCATTTCTATGTACCCGCGTATGTGGGCGGCATCTGGCGTTGATTACCCGACCCTGCTCGCGACCATGATCGAAACCACCCTGGCTCGTGGCGTCGGTCTCCATTAACAGTAAAGGTGGATA

Accepting Vector:

TAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAATTTTGTTTAACTT  
TAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACC  
TGTACTTCCAATCCATGGAGACCGACGTCCACATATACCTGCCGTTCACTATTATTTAGTGAAATGAGAT  
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AAAT

BsaI cut on insert



BsaI cut on accepting vector

BsaI cut on accepting vector

